

WHAT IS CLAIMED IS:

1. A connector (A), comprising:
  - at least one terminal accommodating space (12) for accommodating at least one terminal fitting (35),
  - a wire accommodating space (22) communicating with the terminal accommodating space (12) and configured to accommodate at least part of a wire (30) connected with the terminal fitting (35) and bent substantially into an L-shape, and
  - a bite-in portion (24) formed on an inner surface of the wire accommodating space (22) for plastically deforming at least part of the wire (30) by biting in a bent portion (30b) of the wire (30).
2. The connector of claim 1, wherein the bite-in portion (24) is disposed to bite in the bent portion (30b) of the wire (30) at a position of an inner side with respect to bending.
3. The connector of claim 1, wherein the terminal accommodating space (12) accommodates the terminal fitting (35) with a longitudinal axis of the terminal fitting (35) substantially aligned with forward and backward directions (FBD) of the connector.
4. The connector of claim 1, wherein a section (30a) of the wire (30) from a biting position of the bite-in portion (24) to a connected position with the terminal fitting (35) is substantially straight.
5. The connector of claim 1, wherein the wire (30) has an outer layer (34) that is at least partly removed at the bent portion (30b) of the wire (30) to lower the diameter of the wire (30).

6. The connector of claim 1, wherein the wire (30) has an inner conductor (31), a core (32) made of an insulating material around the inner conductor (31), an outer conductor (33) around the core (32), and a sheath (34) made of an insulating material around the outer conductor (33), the sheath (34) being at least partly stripped at the bent portion (30b) to at least partly expose the outer conductor (33).

7. The connector of claim 6, wherein a sheath contact surface (23) is formed on the inner surface of the wire accommodating space (22) for contacting an outer circumferential surface of the sheath (34), the bite-in portion (24) projecting from the sheath contact surface (23) by distance substantially equal to a radial thickness of the sheath (34).

8. A connector (B), comprising:

at least one terminal accommodating space (12) for at least partly accommodating at least one terminal fitting (35),

a wire accommodating space (22) communicating with the terminal accommodating space (12) and adapted to accommodate at least part of a wire (30) connected with the terminal fitting (35) so that the wire (30) has bent portion (30b) bent substantially into an L-shape, and

a locking section (25; 26) on an inner surface of the wire accommodating space (22) for engaging a portion (39) of the wire (30) extending from the bent portion (30b) towards a side opposite the terminal fitting (35) for substantially preventing longitudinal displacement of the wire (30).

9. The connector of claim 8, wherein the wire (30) has an inner conductor (31), an insulating core (32) around the inner conductor (31), an outer conductor (33) around the core (32), and an insulating sheath (34) around the outer conductor (33), the sheath (34) being partially stripped to expose an end surface (39a; 39b) substantially normal to a longitudinal direction (LD) of the sheath (34), and the locking section (25; 26) being engaged with the exposed end surface (39a; 39b).

10. A connector (A) for accommodating a wire (30) and a terminal fitting (35), the wire (30) having an end, portions of the wire (30) spaced from the end having an insulating sheath (34) thereon, the sheath (34) defining a radial dimension (D), portions of the wire (30) adjacent the end having the sheath (34) removed, the terminal fitting (35) being connected to the wire (30) in proximity to the end and at locations spaced from the sheath (34), the connector (A) comprising:

- a terminal accommodating space (12) having open front and rear ends and configured for accommodating the terminal fitting (35);

- a wire accommodating space (22) extending angularly from the rear end of the terminal accommodating space (12) and having an open rear face, the wire accommodating space (22) being configured to accommodate portions of the wire (30) having the sheath (34) thereon; and

- a projection (24, 25) projecting rearwardly into the wire accommodating space (22) by a projecting distance substantially equal to the radial dimension (D) of the sheath (34) for engaging portions of the wire (30) having the sheath (34) removed.

11. The connector of claim 10, wherein the projection (24) is formed on an internal corner between the terminal accommodating space (12) and the wire accommodating space (22).

12. The connector of claim 10, wherein the projecting distance of the projection (24) is sufficient to plastically deform portions of the wire (30) having the sheath (34) removed.

13. The connector of claim 10, further comprising a cover (18) for selectively covering the open rear face of the wire accommodating space (22).

14. The connector of claim 12, wherein the cover (18) is hinged to one of the terminal accommodating space (12) and the wire accommodating space (22).

15. The connector of claim 13, further comprising a locking section (26) formed on the cover (18) and configured for engaging a portion of the wire (30) having the sheath (34) removed.

16. The connector of claim 14, wherein the projection (25) and the locking section (26) are disposed for engaging a cut end of the sheath (34).

17. A method of assembling a connector (A), comprising:
- accommodating at least one terminal fitting (35) in at least one terminal accommodating space (12);
- bending a wire (30) connected with the terminal fitting (35) into a wire accommodating space (22) communicating with the terminal accommodating space (12) to define a substantially L-shape; and
- urging the wire (30) into a bite-in portion (24) on an inner surface of the wire accommodating space (22) for plastically deforming a bent portion (30b) of the wire (30).
18. The method of claim 16, wherein the bite-in portion (24) bites in the bent portion (30b) of the wire (30) at an inner side with respect to bending.
19. The method of claim 17, further comprising removing at least part of an outer layer (34) of the wire (30) at a location to align at least partly with the bent portion (30b) of the wire (30) to lower the diameter of the wire (30) before bending the wire (30) into the wire accommodating space (22).

20. A method of assembling a connector (B), comprising:

- accommodating at least one terminal fitting (35) in at least one terminal accommodating space (12);
- bending a wire (30) connected with the terminal fitting (35) into a wire accommodating space (22) communicating with the terminal accommodating space (12) so that the wire (30) has a substantially L-shape with a bent portion (30b); and
- engaging at least one lock (25; 26) on an inner surface of the wire accommodating space (22) with a portion (39) of the wire (30) to substantially prevent longitudinal displacement of the wire (30).